

6/78 WTO

Recorded by JAC WTO replacement
Date 4/20/71 3/14/80

U.S. GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
MISSISSIPPI DISTRICT
WELL RECORD

Well No. F81
E-Log No.
County Desoto

Site ID 345352090044301 R=0* T=A* 2=W* HORN LAKE 29B

GEN. SITE DATA

Data reliab. 3=C* U Report. agency 4=USGS* Dist. 6=28* 7=28* Co. 8=033*

Lat. Long./ 9=345352* 10=0900443* Well No. 12=F081*

Location 13=GENE S 19 T 02 S R 08 W* Alt. 16=320* 320

Hyd. Unit (OWDC) 20= Date 21=04/14/1964*

Well use 23=W* Water Use 24=P* Hole depth 27= Well depth 28=424*

WL 30=115* Date 31=11/28/1979* Source 33=S*

Status 273= Project No. 5=

WA SPRT

OWNER

R=158* T=A* Date 159#04/14/1964* Owner No. Well#1

Owner 161=DAYS W A Well originally drilled for Liby Sub.

FIELD QW

R=192* T=A* Date 193# Temp. 196#00010* 197=

R=192* T=A* Date 193# Cond. 196#00095* 197=

R=192* T=A* Date 193# pH 196#00400* 197=

CONSTR.

R=58* T=A* 59#1* Date 60=04/14/1964* Remarks

Drlg. 63=045* Name C.B. Perry Walls, Ms. Method 65=H* Finish 66=S*

CASING

R=76* T=A* 59#1* Top csng. 77# 0.* Bot. csng. 78=392.* Diam. 79# 8.*

R=76* T=A* 59#1* Top csng 77# 382.* Bot. csng. 78=404.* Diam. 79# 6.*

OPENINGS

R=82* T=A* 59#1* Top 83# 404.* Bottom 84=424.*

Type 85=S* Diam. 87=6.* Size 88=.010*

R=82* T=A* 59#1* Top 83# Bottom 84=

Type 85= Diam. 87= Size 88=

YIELD

R=146* T=A* 147# 1* Q 150=250.* Q/S 272=

134 flows 146 pumped

Well F81

R=42* T= A * Lift type 43# T* Intake 44= * Power type 45= E*

LIFT Date 38= 04/14/1964* H.P. 46= 25.*

LOGS R=198* T= A * Log 199# * Top 200= * Bot 201= *
R=198* T= A * Log 199# * Top 200= * Bot 201= *
R=189* T= A * E Log No. 190# * 191= M I S S D I S T *

ANAL. R=114* T= A * Year 115# * Type 120= *

R=90* T= A * 256# 1 * Top 91= * Bot 92= *

AQUIFERS Unit ID 93= 124SPRT * Name of Unit

R=90* T= A * 256# 1 * Top 91= * Bot 92= *

Unit ID 93= * Name of Unit

R=98* T= A * 99# 1 * Unit tested 100= * 103= *

R=105* T= A * 99# 1 * Test No. 106# *

HYDRAULICS 107= * Transmissivity (gal/d)/ft

108= * Hydraul. cond. (gal/d)/ft²

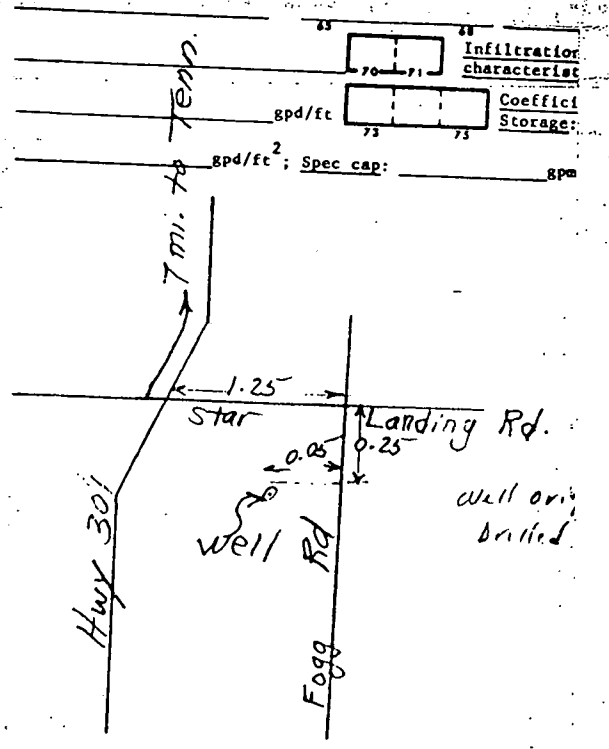
110= * Storage coeff. Boundaries

R=121* T= * Yr Begin 122# * Network 258= *

Water Level Data Collection (1)

water level 4/14/64 110'
ng. Joe Lauderdale
368-6627

12/1/88
WL=114.15 RR
10/31/89
114.24



**APPLICATION FOR PERMIT TO DIVERT OR WITHDRAW
FOR BENEFICIAL USE THE PUBLIC WATERS OF THE STATE OF MISSISSIPPI**

RECEIVED
DEC 10 1995

DEPARTMENT OF ENVIRONMENTAL QUALITY, OFFICE OF LAND AND WATER RESOURCES
P.O. BOX 10631, JACKSON, MS 39289-0631; (601) 961-5202

This box is for office use only. 4-23-96 AGN FORM OLWR-AP-2 (REV. 9/94)

Issued: <u>4-8-86</u>	Expires: <u>4-8-2006</u>	Fee Paid: <input checked="" type="checkbox"/>	Permit No. <u>GW-2177</u>
Lat. <u>34 53 52</u>	Long. <u>90 04 59</u>	Elev. <u>300'</u>	USGS No.
Quad. <u>Horn Lake</u>	ASCS Farm No.	STAC.	MSDOH No.
Aquifer: <u>SPRT</u>	Tract No.		Basin No.
Remarks:			Dam Inv. No.

THIS APPLICATION IS FOR (Circle one): **NEW PERMIT** RENEWAL - PERMIT NO. MS-GW-02177

THIS APPLICATION IS FOR (Circle one): **GROUNDWATER - COMPLETE A,B,E**
SURFACE WATER - COMPLETE A,C,D,E

BENEFICIAL USE (Circle one or more): **(1) Public Supply - Municipal, Rural Water**, or Private Water 2) Irrigation
3) Industrial 4) Fish Culture 5) Recreation 6) Institutional (eg. Church, School) 7) Commercial (eg. Hotel, Casino, Restaurant) 8) Fire Protection 9) Livestock 10) Flood Protection 11) Other: _____

SECTION A (to be completed by ALL APPLICANTS)

LANDOWNER: DAYS WATER ASSOCIATION 64-0466879
(Name) (SSN or Tax ID No.)
PO BOX 171
(Address)
LAKE CORMORANT MS 38641 (601) 781 2002
(City) (State & Zip) (Telephone No.)

APPLICANT, AGENT, OR LESSEE (if different from Landowner):
(Name) _____ (SSN or Tax ID No.) _____
(Address) _____
(City) _____ (State & Zip) _____ (Telephone) _____

NO MAP

Location of diversion/withdrawal point (A suitable map with location marked must accompany this application):
NE SW 1/4 of the NE 1/4 of Section 19, Township 2 S, Range 8 W, County DESOTO

Does the land to which this application pertains have any source(s) of water other than that for which you are now applying (circle one) **YES** NO If yes, describe the nature and amount of any additional supply and, if applicable, list permit number. MS-GW-02178

SECTION B (to be completed for GROUNDWATER SOURCE)

1. AQUIFER: SPARTA MISSISSIPPI DEPARTMENT OF HEALTH NO.: 170005

2. Proposed work will begin on _____, 19____, and will be completed by _____, 19____.
If well has already been drilled, when was well completed (date)? _____, 1964. Under whose name was well originally drilled (if known)? DAYS WATER ASSOCIATION

3. Description of proposed or completed well:
(a) DEPTH OF WELL: 424 feet. DRILLER: PERRY WELL COMPANY, MPHS, TN
(b) SURFACE CASING: Length 392 feet; Diameter 8 inches; Type STEEL
(c) SCREEN: Length 20 feet; Diameter 6 inches; Type STAINLESS STEEL
(d) PUMP: Type TURBINE; Size 6; Capacity 250 gallons per minute; Setting depth _____ feet
(e) POWER UNIT: Type _____; Size 30 horsepower

4. PERMITTED VOLUME :
(a) _____ acre-feet per year at a maximum rate of _____ gallons per minute
(b) 0.504 0.12 million gallons per day at a maximum rate of 350 250 gallons per minute
0.15 250

(CONTINUED ON BACK)

Del
7-9-96

SECTION C (to be completed for **SURFACE WATER SOURCE**)

1. Source of water is from _____ which drains into _____
which drains into _____
(major stream or river)
2. Discription of pump/diversion works:
Pump (size & type): _____ Power Unit (size & type): _____
Lift: _____ feet Maximum capacity: _____ gallons per minute
3. _____ acre-feet per year at a maximum rate of _____ gallons per minute

SECTION D (to be completed for **SURFACE WATER IMPOUNDMENTS (DAMS)** on continuously flowing streams)

1. Name of storage reservoir: _____ Dam Height: _____ feet
2. Surface area at normal pool: _____ Storage capacity at normal pool: _____ acre-feet

SECTION E WATER USE DATA (ALL APPLICATIONS - complete section related to beneficial use)

1. **IRRIGATION:** List the number of acres of each crop to be irrigated: Rice _____; Cotton _____; Oats _____; Corn _____; Soybeans _____; Pasture _____; Truck _____; Wheat _____; Grain Sorgum _____; Other (specify) _____ Acres _____

A. Method of Irrigation (circle one) - Center Pivot Flood Furrow

B. Land Condition (circle one) - Precision Land Formed Smoothed

C. ASCS Farm No. _____ Tract No. _____

2. **FISH CULTURE:** Explain how water will be used: _____
How often will reservoir (s) be emptied and refilled? _____

3. **MUNICIPAL, WATER ASSOCIATION, or PRIVATE WATER SYSTEM**

Chose "a" or "b". (a) The number of people served is _____ or (b) The number of connections is 575

What is the estimated average daily consumption during periods of maximum use at the end of each five-year period during the next twenty (20) years? : $\frac{.139}{\text{(Volume)}}$ $\frac{2000}{\text{(Year)}}$; $\frac{.155}{\text{(Volume)}}$ $\frac{2005}{\text{(Year)}}$; $\frac{.171}{\text{(Volume)}}$ $\frac{2010}{\text{(Year)}}$; $\frac{.187}{\text{(Volume)}}$ $\frac{2015}{\text{(Year)}}$

4. **INDUSTRIAL :** If the water is to be released into a watercourse, indicate the amount released each year _____;
Rate of release _____; NPDES Permit No. _____

Explain any changes in quality of water to be released: _____

Explain how water will be used: _____

How much groundwater will be used for once-through non-contact cooling? _____

5. **RECREATION:** Explain how water will be used: _____

6. **OTHER USE:** Explain in detail (if needed, attach another page): _____

7. **REMARKS:** TOTAL CONNECTIONS AND ESTIMATED CONSUMPTION IS FOR BOTH WELLS ON THIS SYSTEM.

List below the person to be contacted for additional information if required.

BILL ROBERSON
(Name)

PO BOX 362
(Address)

HERNANDO, MS 38632
(City, State, Zip)

601-429-9509
(Telephone)

The accompanying map is hereby declared a part of this application. For irrigation and fish culture use, an ASCS photograph is required. The **TEN DOLLAR (\$10.00)** permit fee is enclosed herewith.

(Signature)

Subscribed and sworn to before me this _____ day of _____, 19____, at _____ County of _____

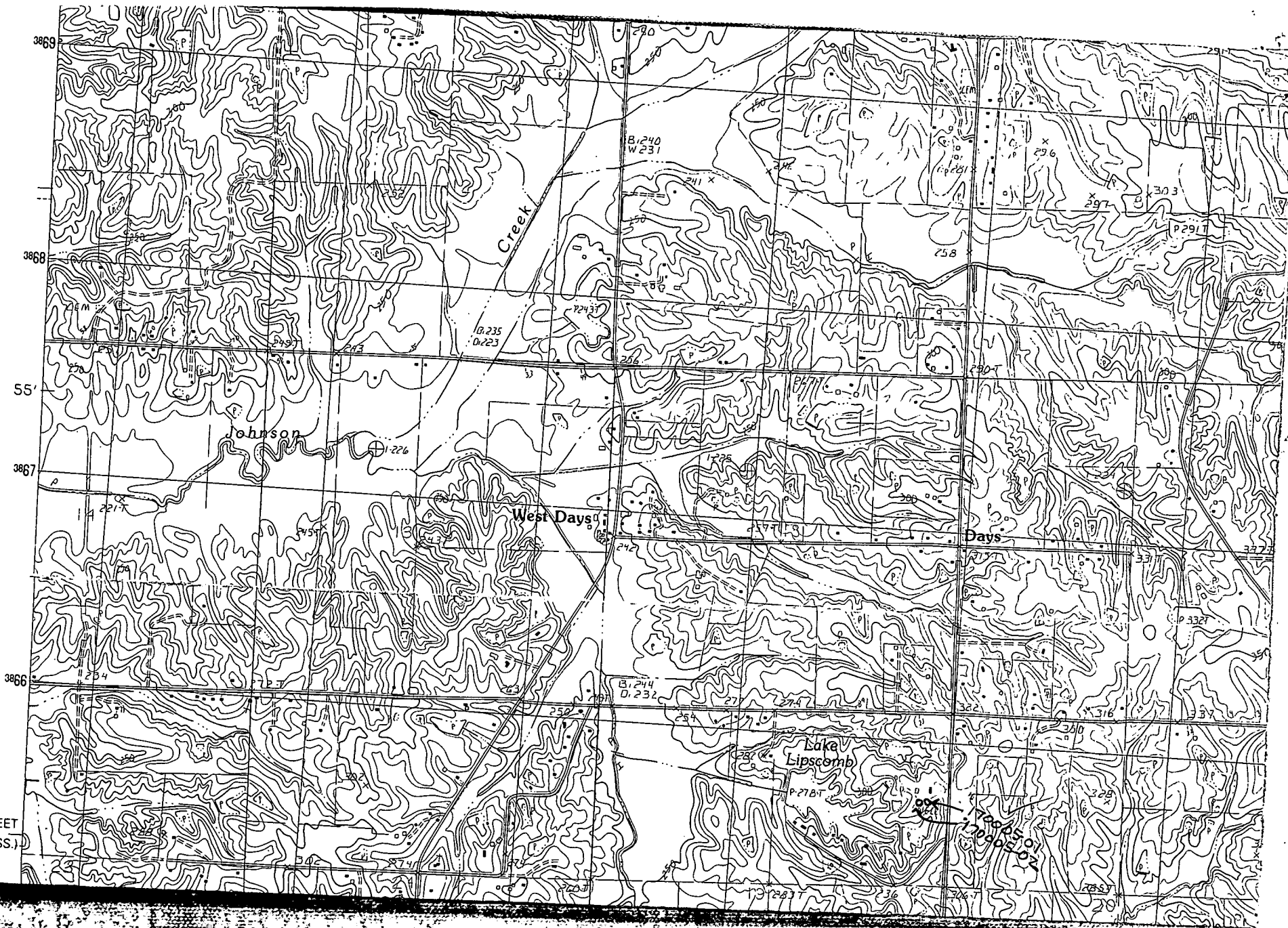
My commission expires _____; _____ Notary Public.

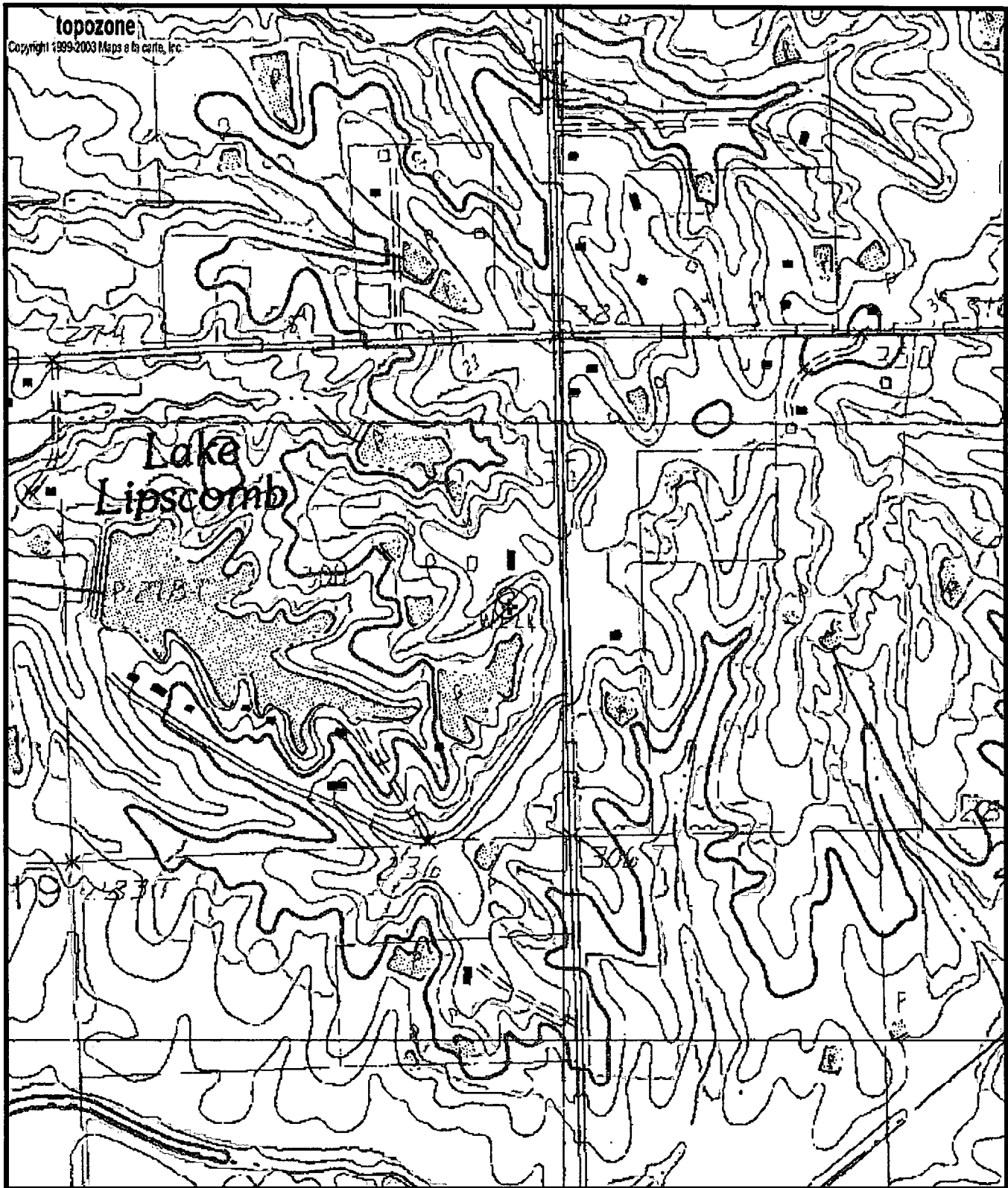
DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR
PUBLIC SUPPLY WELLS PROJECT

GPS LOG

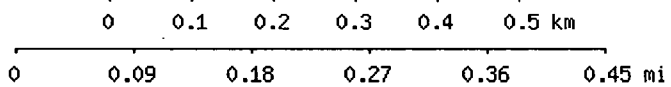
USER NAME(S): SHB + PEG ~~LAR/DRE~~ DATE: 8-21-96
UNIT DEQ #: ~~84759~~ 84759 FILE #: ~~84759~~
HEALTH DEPT. #: 1700005-01 ELEV. 280
USGS #: 156 F-81 OLWR #: MS-GW-02177
OWNER: DAYS WATER ASSOC.
LOCATION: NE/SE/NE S 19 T 25 R 8W COUNTY: DESP
LOCATION DESCRIPTION: NORTH SIDE OF WATER PLANT
ct TAVEL
CASING DIA: 8" PUMP TYPE & SIZE: TURBINE 20 HP
GPS FIELD LOCATION: LAT. ~~34.9061739~~ LONG. ~~90.0792124~~
GPS CORRECTED LOCATION: LAT. 34.9061739 LONG. 90.0792124
REMARKS: _____

1 600 000 FEET
(MISS.)





017005-01
GW02177
F81



Map center is 34° 54' 02"N, 90° 04' 45"W (WGS84/NAD83)
Horn Lake quadrangle
 Projection is UTM Zone 15 NAD83 Datum

M=0.049
 G=1.673